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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/814,292

DATE: 10/30/2001

TIME: 12:02:02

Input Set : A:\348022001500.txt

Output Set: N:\CRF3\10302001\I814292.raw

4 <110> APPLICANT: Yu, De-Chao
 5 Zhang, Hong
 6 Henderson, Daniel R.
 8 <120> TITLE OF INVENTION: HUMAN UROTHELIAL CELL SPECIFIC UROPLAKIN
 9 TRANSCRIPTIONAL REGULATORY SEQUENCES, VECTORS COMPRISING
 10 UROPLAKIN-SPECIFIC TRANSCRIPTIONAL REGULATORY SEQUENCES, AND
 11 METHODS OF USE THEREOF
 14 <130> FILE REFERENCE: 348022001500
 16 <140> CURRENT APPLICATION NUMBER: 09/814,292
 C--> 17 <141> CURRENT FILING DATE: 2001-10-12
 19 <150> PRIOR APPLICATION NUMBER: 60/191,861
 20 <151> PRIOR FILING DATE: 2000-03-24
 22 <160> NUMBER OF SEQ ID NOS: 46
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 2240
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Artificial Sequence
 31 <220> FEATURE:
 32 <223> OTHER INFORMATION: Human uroplakin II 5' flanking region
 34 <400> SEQUENCE: 1

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37	attgattgag cagcgtggct cacacctgta atoccaacac tctgggaggc caaggcagg	180
38	ggatcaacttg tggtcaggag ttgagacca gcctggccaa catggtgaaa cctcatctct	240
39	actaaaaata caaaaattag ctgggaatgg tggcacatgc ctataatccc agttactcag	300
40	gaggctgagg caggagaatc atttgaacct gggaggcaga ggttgacagt agccgagatc	360
41	acgccactgc actccagcct gggtagacac gcgagactct gtctcaaaaa aaaaaaatg	420
42	cagaatttca ggcttcaccc cagaccact gcactgactgc atgagaagct gcactttaac	480
43	aagatccctg gtaattcata cgcataatga atttggagat gcactggcgt aagaccctcc	540
44	tactctctgc ttaggcccac gagttcttcc tttactgtca ttctccactc accccaaact	600
45	ttgagcctac ccttcccacc ttggcggtaa ggacacaacc tccctcacat tcctaccagg	660
46	accctaagct tccctgggac tgaggaagat agaatagttc gtggagcaaa cagatataca	720
47	gcaacagtct ctgtacagct ctcaggcttc tgggaagttct acagcctctc ccgacaaagt	780
48	attccacttt ccacaagtaa ctctatgtgt ctgagtctca gtttccactt ttctctctct	840
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51	octcccagat agctgggatt acaggcacac accaccgcgt tagtttttgt atttttggt	1020
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55	ggcctcgagt gatcctocca ccttgccctc ccaaagtgtt gagattacag gcattgacca	1260
56	ctgtgcctgg cctcagttct actacaaaag gaagccagta ccagctacca cccagggtgg	1320
57	ctgtagggct acaatggagc acacagaacc cctaccagag gcccggaaga agccccgact	1380
58	cctctcccct cctctgccc agaactcctc cgcttcttct tgatgtagcc caggggcgga	1440
59	ggaggcagtc agggaggttc tgtctctttt tcatgttatc ttacgaggtc tctttctcc	1500
60	attctcagtc caacaaatgg ttgctgcccc aggctgactg tgcccccccc caaccctgc	1560

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61 tggccagggg caatgtctgt ctctctgggc tctccagaag tcttccatgg ccaccttcgt 1620
62 ccccccctc cagaggaatc tgaaccgca tgtgtccct ggccccaca gccctgcct 1680
63 ctcccagagc agcagtacct aagctcagt gcaactcaag aattgaaacc ctcaagtctgc 1740
64 tgcccctccc caccagaatg tttctctccc attcttacc actcaaggcc ctttcagtag 1800
65 ccccttgagg tattctcttc ctacatatca gggcaacttc caaactcacc acccttctga 1860
66 ggggtggggg aaagaccccc accacatcgg gggagcagtc ctccaaggac tggccagctc 1920
67 ccagatgccc gtgcacacag gaacactgcc ttatgcacgg gactcccaga agaaggggtg 1980
68 atttctttcc ccaccttagt tacaccatca agaccagcc agggcatccc cctcctggc 2040
69 ctgagggcca gctccccatc ctgaaaaacc tgtctgtctt ccccccctt ttgaggctat 2100
70 agggcccaag gggcaggttg gactggattc cctccagcc cctccgccc ccaggacaaa 2160
71 atcagccacc ccaggggcag ggcctcactt gcctcaggaa cccagcctg ccagcaccta 2220
72 ttcacacctc cagcccagca 2240

74 <210> SEQ ID NO: 2
75 <211> LENGTH: 3592
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Mouse uroplakin II 5' flanking region
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85 agtggctcac tcaaagttac aagccaacac tcaccactac gactacaatg gccaccatta 180
86 gtgtgtggcat gccccaggag acaggcatgc atattattct agatgactgg gaggcagagg 240
87 ggtggcctag tgaggtcaga ctgtggacag atcaggcaga tgtgggttct gatcccaatt 300
88 cctcaggccg cagaactact gtggttcaag aaggggacaa aaggactgca gtccggaaca 360
89 ggaggtccat ttgagagctg actgagcaga agaggaaagt gaagaacttc tggggcaaga 420
90 gcttacccta ctttacagct ttgttgtctt ctttactcca ggggcgtccc tggtagtcag 480
91 taaatgtctg ttggcttgag gaacatatgt gtaaggagga aggagagga acttgagga 540
92 gttaagactc aagaatcaat caaggagagg acagcagaga agacaggggt. tgggagagag 600
93 actccagaca ttggccctgg ttcccttctt ggcactgtg aaacctcca gaggaactga 660
94 gtgtgtggc tttaaatgat ctacgactgt tcaatgaagc gctctgtctc aagagttatc 720
95 ctcttgctcc tgtgccgggg cctccccctc ctctcagctc ccaaaccctt ctccagccact 780
96 gtgatggcat aattagatgc gagagctcag accgtcaggt ctgctccagg aaccacccat 840
97 tttccccaac cccagagaaa ggtcctagt gaaaagtggg ggccactgaa gggtgatgg 900
98 ggtttctgtc tttcccccct gctgggtgga cttaaagtct gcgatgtgtg tagggggtag 960
99 aagacaacag aacctggggg ctccggctgg gagcaggagg aactctcacc agacgatctc 1020
100 caaatttact gtgcaatgga cgtacaggaa actggttcag atgtagcttc tgatacagtg 1080
101 ggtctgaggt aaaaccgaa acttaatttc tttcaaaaat ttaaagttgc atttattatt 1140
102 ttatatgtgt gcccatatgt gtgccacagt gtctatgtgg aggtcagagg gcaagttgtg 1200
103 ggcattggct ctctccttcc ataatgtggc ttctggggac caaaatgtca ggcattgttg 1260
104 caagagcttt tacctgttga gccatctcat ggtttcgtaa aacttcctat gacgcttaca 1320
105 ggtaacgcag agacacagac tcacatttgg agttagcaga tctgtattg gtgtaaacac 1380
106 tcatacacag acacacacac atactcatac acacacacac acatttatca catgcacaca 1440
107 catactcgta tacacacaga cacacacaca tgcaacttca cattcacata ttcatacaca 1500
108 tccacacaca cactcatcca cacacacaga cacacatact catccacaca cacacacaca 1560
109 catactcata cacacacaca gacacacata ctcatacaca cacacagaca cacacatata 1620
110 atcatacata cacagacaca ctcatacatg tgcacacaca cactcatcca cacacacaca 1680
111 ctcatacaca cacacactca tacacacaca cactcataca cacacacagc aggtttttct 1740
112 caggctgcct ttgggtggag actggaactg atttctgttt ttcagctcct tggctttttg 1800

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113 tccctttaga tgagatctcc tctcacttt acacacagaa agatcacaca cgagggagaa 1860
114 ctggcgggtgc ggaagagggc tacacggtag ggtgtcaggg tcaggagatc ttcttgcaa 1920
115 gtctcaaac tccacatagc acagtgttta cgtgaggatt taggaggaat caggaagagg 1980
116 attggtttac tgcagagcag accatatagg tccactccta agccccattt gaaattagaa 2040
117 gtgagacagt gtgggataaa aagagcagat ctctggtcac atttttaaag ggatatgagg 2100
118 gtccctgtgcc ttttaagcctt cccatctccc tccaatcccc cctcaccttc cccaccctaa 2160
119 ccctcccccag gttttctggag gagcagagtt gcgtcttctc cctgccctgc cgagctgctc 2220
120 actggctgct ctagaggctg tgctttgcgg tctccatgga aaccattagt tgctaagcaa 2280
121 ctggagcatc atctgtgctg agctcaggtc ctatcgagtt cacctagctg agacacccac 2340
122 gccctgcag ccactttgca gtgacaagcc tgagtctcag gttctgcac tataaaaaacg 2400
123 agtagccttt caggagggca tgcagagccc cctggccagc gtctagagga gaggtgactg 2460
124 agtggggcca tgtcactcgt ccatggctgg agaacctcca tcagtctccc agttagcctg 2520
125 gggcaggaga gaaccagagg agctgtggct gctgattgga tgatttacgt acccaatctg 2580
126 ttgtcccagg catcgaaccc cagagcgacc tgcacacatg ccaccgctgc cccgccctcc 2640
127 acctcctctg ctctctggta caggattggt ttgtcttgaa gggttttgtt gttgctactt 2700
128 tttgctttgt tttttctttt ttaacataag gtttctctgt gtagecctag ctgtcctgga 2760
129 actcactctg tagaccaggc tggcctcaaa ctcagaaatc caccttcttc ccaagtgtg 2820
130 ggattaaagg cattcgcacc atcgcccagc ccccggtctt gtttcttaag gtttctctgc 2880
131 tttactcgct acccggttga caaccgcttg ctgtccaagt ctgtttgtat ctactccacc 2940
132 gccactagc cttgctggac tggacctagc ttacctggga agccttcaact aacttccctt 3000
133 gtctccacct tctggagaaa tctgaaggct cacactgata ccctccgctt ctcccagagt 3060
134 cgcagtttct taggcctcag ttaaatacca gaattggatc tcaggtctg ctatccccac 3120
135 cctacctaac caacccctc ctctcccatc cttactagcc aaagcccttt caacccttgg 3180
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137 cctacctcct tggagactga cctctacag tccaggaggc agacactcag acagaggaa 3300
138 tctgtccttc agtcgcggga gttccagaaa gagccatact cccctgcaga gctaactaag 3360
139 ctgccaggac ccagccagag catccccctt tagccgaggg ccagctcccc agaataaaaa 3420
140 acctgtctgg ggcccctccc tgaggctaca gtgcgaagg ggcaagttgg actggattcc 3480
141 cagcagcccc tccactccg agacaaaatc agtaccctg gggcaggcct cattggcccc 3540
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144 <210> SEQ ID NO: 3

145 <211> LENGTH: 307

146 <212> TYPE: DNA

147 <213> ORGANISM: Artificial Sequence

149 <220> FEATURE:

150 <223> OTHER INFORMATION: Nucleotide sequence for ADP

152 <400> SEQUENCE: 3

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154 aacatctgcc ctaaatttac ccaagtta tgcctttgtc aatgactggg cgagcttgga 120
155 catgtggtgg ttttccatag cgcttatggt tgtttgcctt attattatgt ggcttatttg 180
156 ttgcctaaag cgcagacgcy ccagaccccc catctatagg cctatcattg tgctcaaccc 240
157 acacaatgaa aaaattcata gattggacgg tctgaaacca tgttctcttc ttttacagta 300
158 tgattaa

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160 <210> SEQ ID NO: 4

161 <211> LENGTH: 101

162 <212> TYPE: PRT

163 <213> ORGANISM: Artificial Sequence

165 <220> FEATURE:

166 <223> OTHER INFORMATION: Amino acid sequence for ADP

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169 Met Thr Gly Ser Thr Ile Ala Pro Thr Thr Asp Tyr Arg Asn Thr Thr
170 1 5 10 15
171 Ala Thr Gly Leu Thr Ser Ala Leu Asn Leu Pro Gln Val His Ala Phe
172 20 25 30
173 Val Asn Asp Trp Ala Ser Leu Asp Met Trp Trp Phe Ser Ile Ala Leu
174 35 40 45
175 Met Phe Val Cys Leu Ile Ile Met Trp Leu Ile Cys Cys Leu Lys Arg
176 50 55 60
177 Arg Arg Ala Arg Pro Pro Ile Tyr Arg Pro Ile Ile Val Leu Asn Pro
178 65 70 75 80
179 His Asn Glu Lys Ile His Arg Leu Asp Gly Leu Lys Pro Cys Ser Leu
180 85 90 95
181 Leu Leu Gln Tyr Asp
182 100
184 <210> SEQ ID NO: 5
185 <211> LENGTH: 29
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: PCR Primer 66.119.1
192 <400> SEQUENCE: 5
193 accggtctcg aggatctcgg cctcttttc 29
195 <210> SEQ ID NO: 6
196 <211> LENGTH: 26
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: PCR Primer 66.119.2
203 <400> SEQUENCE: 6
204 accggtactg cgctgggact g gatcc 26
206 <210> SEQ ID NO: 7
207 <211> LENGTH: 34
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: PCR Primer 100.24.1
214 <400> SEQUENCE: 7
215 aagcttaccg gtactgcgct gggactggat cctg 34
217 <210> SEQ ID NO: 8
218 <211> LENGTH: 36
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: PCR Primer 100.27.1
225 <400> SEQUENCE: 8
226 accatggacc ggtctcgagg atctcggccc tctttc 36
228 <210> SEQ ID NO: 9
229 <211> LENGTH: 36

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230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: PCR Primer 100.24.3
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239 <210> SEQ ID NO: 10
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241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: PCR Primer 100.24.2
247 <400> SEQUENCE: 10
248 accatggacc ggtcactagc cttgctggac tggac 35
250 <210> SEQ ID NO: 11
251 <211> LENGTH: 24
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: PCR Primer 100.84.1
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264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: PCR Primer 100.84.2
269 <400> SEQUENCE: 12
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272 <210> SEQ ID NO: 13
273 <211> LENGTH: 29
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: PCR Primer 100.113.1
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286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: PCR Primer 100.113.2
291 <400> SEQUENCE: 14
292 acccaagctt gggatgctgg gctgggaggt gg 32
294 <210> SEQ ID NO: 15
295 <211> LENGTH: 39
296 <212> TYPE: DNA

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/814,292

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Input Set : A:\348022001500.txt

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L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date